

PRODUCT SPECIFICATION FOR APPROVAL

CUSTOMER: Zebra Technologies Corporation

REF. NO.: Drawing # 211190-002 Rev.H

MODEL NO.: FD4015B24W5-61-2RSC2

DESCRIPTION: DC Fan, 40x40x15mm, 24VDC,
2Ball Bearing, twist wire
with JST# XARR-02VF
& SXAM-001T-P0.6 Connector

CUSTOMER CONFIRMATION SIGNATURE	COOLTRON SIGNATURE		
Please Confirmation your acceptance of this Approval sheet by return fax or email 	APPROVED	CHECKED	PREPARED
	Kevin Zou 5/13/2011	Tony Li 5/13/2011	Eric Zhang 5/13/2011
EDITION	V1.02		
REVISED DATE	5/13/2011		

This offer is made according to your current inquiry. Unless otherwise revised, this specification will be final for all future production of orders from your respected company

Kindly study in details and return to us the duplicate duly signed as your confirmation of same.

COOLTRON Industrial Supply, Inc.

20468 Carrey Road, Walnut, CA 91789 Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

**Standards and Specifications
of
Model: FD4015B24W5-61-2RSC2
(Auto Restart Protection)**

A. General Specification

Item	Specification / Standard / Condition	
Outline Dimension	40 mm x 40 mm x 15 mm	
Bearing	Dual Ball Bearing.	
Rated Voltage	DC 24V	
Operating Voltage	DC12.00V ~ DC27.6V	
Starting Voltage	DC12.00V	1. Rated Voltage 2. 25°C, 65% RH
Rated Current	0.10A	
Power Consumption	2.40W	
Speed	6500R.P.M.	1. Free Air 2. Rated Voltage 3. 25°C, 65% RH 4. Tolerance: $\pm 10\%$
Maximum Airflow	8.30CFM	1. Rated Voltage 2. AMCA Standard 3. Rated Current
Maximum Static Pressure	5.20mm-H ₂ O	
Noise Level	29.10 dB (A)	1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition
Life 70,000	hrs	25°C, L10 at Conf. Level 90%, Rated Voltage
Net Weight	23.5g	
Number of Blade	7 Blades	
Number of Pole	4 Poles	
Rotating Direction	Counter-Clockwise	
Plastic Material: Blade, Housing, Bobbin	1. UL 94V-0 2. P.B.T. + 30% GF Black	
Lead Wire	UL 1007, 26AWG	Red: (+) Black: (-)
Connector	JST XARR-02VF Connector & JST SXAM-001T-P0.6 Terminals	

B. Electrical Specification

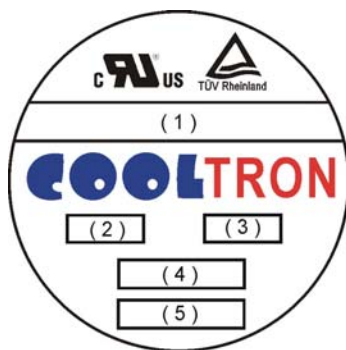
Item Spec	ification / Condition
Locked Rotor Protection	a. Auto power off after locked at rated voltage for 1 sec. b. After auto power off, circuit attempt to restart in 2-6 sec.
Polarity Protection	Circuit is protected when V _{CC} & GND are exchanged.
Insulation Resistance	10m.Ohm / between unshielded wire and frame at 500 VDC/min.
Dielectric Strength	5 mA Maximum. / Measured between lead wire + and frame at 500 VAC/min.

C. Environmental Specification

Item	Specification / Condition
Operating Condition	Temperature: -10°C ~ + 70°C Humidity: 35% ~ 85% RH
Storage Temperature	Temperature: -40°C ~ +70°C Humidity: 35% ~ 85% RH
Humidity	Per MIL-STD-202F Method 103B Life: 96 hours Temperature: +40 ± 2°C
Thermal Shock	Per MIL-STD-202F Method 107D, Condition D
Packing Vibration Test	Packing condition: X, Y, Z 3 directions, 1.1G load vibration test for 30 min.
Packing Shock Proof Test	1 corner, 3 edges, 6 faces natural drop from 60cm high, packed

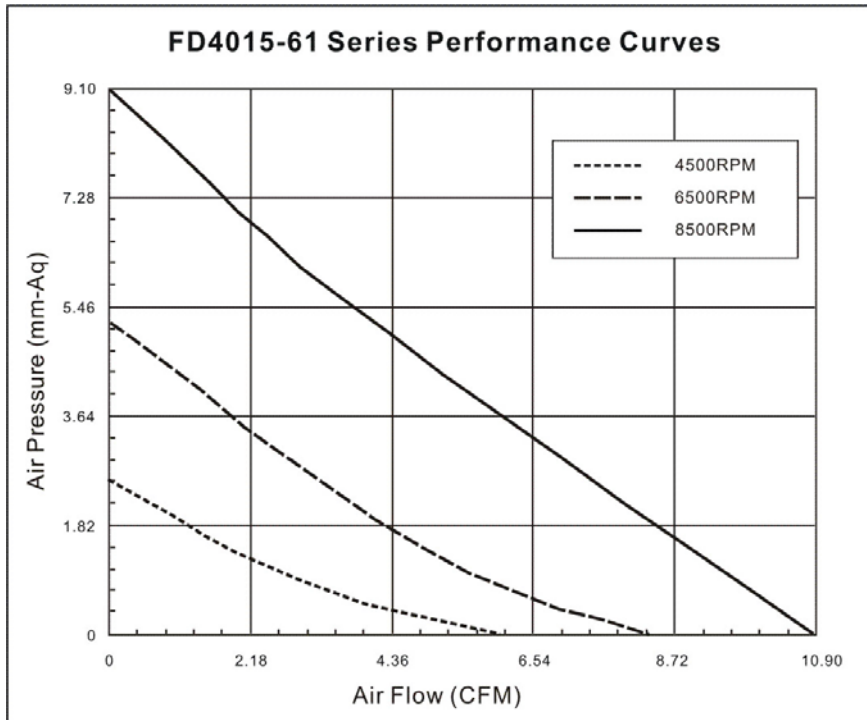
D. Safety Approvals

Safety Approval	File No.
UL E19	4726
CUL E19	4726
TUV	B 05 11 57907

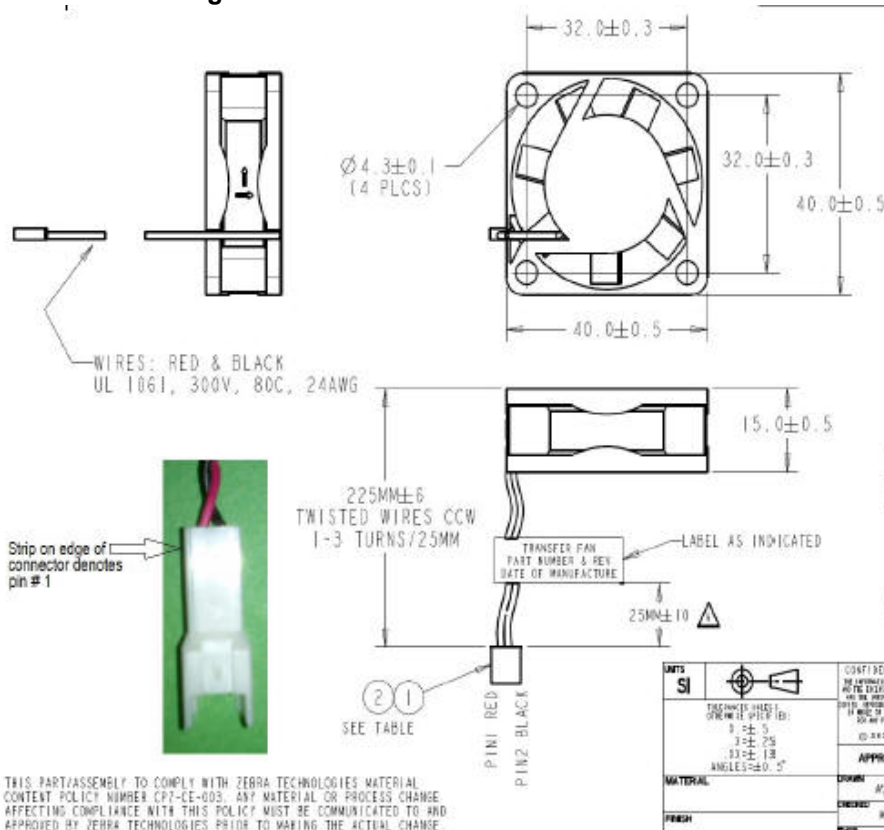
E. Label Marking

(1)	Model Number
(2)	Rated Voltage
(3)	Power Consumption
(4)	Bearing Type
(5) Loc	ation

F. Air Flow Performance Curve



G. Model Drawing



H. Fan Photos

